

Title (en)

MULTIPLE MATERIAL DENTAL APPARATUSES AND TECHNIQUES FOR MAKING THE SAME

Title (de)

DENTALVORRICHTUNGEN AUS MEHREREN MATERIALIEN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

APPAREILS DENTAIRE À MATÉRIAUX MULTIPLES ET LEURS TECHNIQUES DE FABRICATION

Publication

**EP 4225204 A1 20230816 (EN)**

Application

**EP 21802502 A 20211009**

Priority

- US 202063090092 P 20201009
- US 2021054321 W 20211009

Abstract (en)

[origin: US2022110719A1] Dental apparatuses, such as palatal expanders and aligners, and methods of forming them. The dental apparatuses may be formed by printing different regions of the device with different properties, including hybrid regions formed between adjacent regions having different physical characteristics for performing different functions when worn by a patient as part of a dental treatment. The different regions may be joined together by a transition region configured to hold adjacent regions together during use and provide advantageous properties.

IPC 8 full level

**A61C 7/10** (2006.01); **A61C 7/00** (2006.01); **A61C 7/08** (2006.01)

CPC (source: EP US)

**A61C 7/002** (2013.01 - EP US); **A61C 7/08** (2013.01 - EP US); **A61C 7/10** (2013.01 - EP US); **A61C 7/16** (2013.01 - US); **B29C 64/124** (2017.07 - EP); **B29C 65/48** (2013.01 - US); **B33Y 10/00** (2014.12 - EP); **B33Y 40/20** (2020.01 - US); **B33Y 70/00** (2014.12 - EP); **B33Y 70/10** (2020.01 - EP); **B33Y 80/00** (2014.12 - EP US); **G16H 20/40** (2017.12 - EP US); **G16H 50/50** (2017.12 - EP); **A61C 2201/00** (2013.01 - US); **B29C 64/336** (2017.07 - EP); **B29C 64/386** (2017.07 - US); **B29L 2031/753** (2013.01 - US); **B33Y 50/00** (2014.12 - US)

Citation (search report)

See references of WO 2022076925A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**US 2022110719 A1 20220414**; CN 116568238 A 20230808; EP 4225204 A1 20230816; US 2022110717 A1 20220414; US 2022110718 A1 20220414; WO 2022076925 A1 20220414

DOCDB simple family (application)

**US 202117498739 A 20211011**; CN 202180083430 A 20211009; EP 21802502 A 20211009; US 2021054321 W 20211009; US 202117497892 A 20211009; US 202117498736 A 20211011